## **PATENT COOPERATION TREATY**

# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
74698-106	ACTION	as well as, where applicable, item 5 below.
International application No.	International filing date (day/month	/year) (Earliest) Priority Date (day/month/year)
PCT/CA2004/000444	29/03/2004	28/03/2003
Applicant		
MED-ENG SYSTEM INC.		
This International Search Report has bee according to Article 18. A copy is being to	en prepared by this International Searce ransmitted to the International Bureau	ching Authority and is transmitted to the applicant
This International Search Report consists	s of a total ofshe	ets.
X It is also accompanied b	y a copy of each prior art document cit	ted in this report.
4. Paris of the report		
Basis of the report     a. With regard to the language, the language in which it was filed, ur	e international search was carried out of the internation out of the international search was carried out of t	on the basis of the international application in the em.
The internationa this Authority (R		of a translation of the international application furnished to
b. With regard to any nucle	eotide and/or amino acid sequence	disclosed in the international application, see Box No. I.
2. Certain claims were for	und unsearchable (See Box II).	
3. X Unity of invention is la	cking (see Box III).	
4. With regard to the title,		
the state of the s	ubmitted by the applicant.	
the text has been establi	ished by this Authority to read as follow	ws:
•		
5. With regard to the abstract,		
	submitted by the applicant.	·
x the text has been estable	ished, according to Rule 38.2(b), by th	nis Authority as it appears in Box No. IV. The applicant
may, within one month fi	om the date of mailing of this internat	ional search report, submit comments to this Authority.
6. With regards to the drawings,		
a. the figure of the <b>drawings</b> to be	published with the abstract is Figure N	No. <u>4</u> A
X as suggested by	the applicant.	
as selected by the	his Authority, because the applicant fa	illed to suggest a figure.
	his Authority, because this figure bette	er characterizes the invention.
b. none of the figures is to	be published with the abstract.	

### PC1/CA2004/000444

## INTERNATIONAL SEARCH REPORT

nis International Search Report has no	ot been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.:	
because they relate to subject	matter not required to be searched by this Authority, namely:
Claims Nos.:	
because they relate to parts of	f the International Application that do not comply with the prescribed requirements to such nternational Search can be carried out, specifically:
an extent that no meaningful is	meniational Search can be carried out, specifically.
•	
Claims Nos.:	Live and are not death of its assertioned with the second and third sentences of Rule 6.4(a)
because they are dependent of	claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
ox III Observations where unit	y of invention is lacking (Continuation of item 3 of first sheet)
	formal multiple inventions in this international application, as follows:
his International Searching Authority i	found multiple inventions in this international application, as follows:
	•
see additional sh	eet
. As all required additional sear	rch fees were timely paid by the applicant, this International Search Report covers all
searchable claims.	
. As all searchable claims could	d be searched without effort justifying an additional fee, this Authority did not invite payment
of any additional fee.	
<b>,</b>	
As only some of the required	additional search fees were timely paid by the applicant, this International Search Report
As only some of the required covers only those claims for w	which fees were paid, specifically claims Nos.:
As only some of the required	which fees were paid, specifically claims Nos.:
As only some of the required covers only those claims for w	which fees were paid, specifically claims nos.:
As only some of the required covers only those claims for w	which fees were paid, specifically claims Nos.:
As only some of the required covers only those claims for v	which fees were paid, specifically claims Nos.:
As only some of the required covers only those claims for v	which fees were paid, specifically claims Nos.:
As only some of the required covers only those claims for v	which fees were paid, specifically claims Nos.:
As only some of the required covers only those claims for v	which fees were paid, specifically claims Nos.:
As only some of the required covers only those claims for v	which fees were paid, specifically claims Nos.:
As only some of the required covers only those claims for v	which fees were paid, specifically claims Nos.:
As only some of the required covers only those claims for value 1-114,117-130,144  No required additional search restricted to the invention first	H-151  In fees were timely paid by the applicant. Consequently, this International Search Report is set mentioned in the claims; it is covered by claims Nos.:
As only some of the required covers only those claims for v	which fees were paid, specifically claims Nos.:

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-25,47-61

A head protection system comprising a helmet shell, mounting means for pivotally mounting a visor, retaining means for retaining said visor and a visor comprising a layer of transparent material and at least one layer of ballistic resistant material.

2. claims: 26-46,99

A helmet comprising a shell and mounting means for pivotally mounting a shield member to said shell and a locking system.

3. claims: 62-73,144,149-151

A helmet comprising a shell and strap means.

4. claims: 74-79,87-90,100-114

A helmet comprising a shell, an electrically powered system and a power controller.

5. claims: 80-86

A helmet comprising a shell, a visor, a moisture reducing means treatment on the surface thereof and electrically powered means for providing ventilation.

6. claims: 91-98

A helmet comprising a shell, a shield member, coupling means and shock absorption means.

7. claims: 115-116

A protective helmet having a side portion which covers the ear of the user and a microphone positioned on said side portion.

8. claims: 117-130

A head protector comprising a helmet shell having a head cavity, a liner, at least one retainer and a packing member.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

9. claims: 131-143

A head protector comprising a helmet shell and a shield and coupling means for slidingly engaging and disengaging the shield to and from the helmet.

10. claims: 145-148

A protective system comprising a helmet and a plurality of visors.

#### International application No.

#### INTERNATIONAL SEARCH REPORT

PCT/CA2004/000444

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A head protection system comprises a helmet shell (4), a visor mounting (5) for pivotally mounting a visor (6) to the shell to enable the visor to be moved between raised and lowered positions, and a retainer (8) for releasably retaining the visor to the helmet. The system includes a visor adapted for mounting on the shell which comprises a substrate of transparent thermoplastic material (108) and a backing substrate (130) comprising a plurality of layers of high performance, ballistic resistant material. The system may further include a second visor which can be releasably connected to the shell using the same visor mounting and which may have a different construction and primary function.

# A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F41H5/04 F41H1/04

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Χ	DE 32 44 152 A (HPS-HILDEBRANDT GESELLSCHAFT FÜR KUNSTSTOFFVERARBEITUNG)	1	
Y	30 May 1984 (1984-05-30) page 4, line 1 - line 11	2-25, 47-61	
	page 5, line 19 - line 32 page 6, line 16 - line 27; claims 1-3; figures 1-8		
Υ	US 3 573 150 A (BROUTMAN ET AL.) 30 March 1971 (1971-03-30) abstract column 2, line 31 - line 34 column 6, line 7 - line 8; figures 1-3	2-25, 47-61	
	-/		

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the international search report		
21 September 2004	0 7 10 2004		
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Giesen, M		

7.

Category °	tion) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
rategol y		1
(	DE 86 33 539 U (EVERS) 9 April 1987 (1987-04-09)	2-25,
	page 2, line 2 - line 9; claim 1; figures 1,2	47-61
<b>(</b>	FR 2 607 237 A (GALLET) 27 May 1988 (1988-05-27)	1
4	page 1, line 1 - line 21; figures 1,2	2-25, 47-61
X	US 3 636 565 A (LUISADA ET AL.) 25 January 1972 (1972-01-25)	26-32, 35-40
Y	column 2, line 36 - column 3, line 63	33,34, 41-43, 92-98
Α	figures 1-7	44-46
Х	FR 2 706 257 A (GALLET) 23 December 1994 (1994-12-23)	26-32, 35-40
Α	page 8, line 15 - page 10, line 2; figure 5	33,34, 41-46
X	US 5 747 159 A (LABOCK) 5 May 1998 (1998-05-05) column 7, line 61 - column 8, line 50; figures 8,9	47-50, 57-61
X	EP 1 069 370 A (SUMINISTROS ADARO) 17 January 2001 (2001-01-17)	74-77, 87-90
Υ	paragraph [0013] - paragraph [0026]; figures 1-5	78, 100-113
Χ	DE 729 240 C (GERMANN) 11 December 1942 (1942-12-11)	74-77, 87-90, 113
	page 2, left-hand column, line 22 - right-hand column, line 63; figures 1-4	
Х	US 5 357 409 A (GLATT) 18 October 1994 (1994-10-18) column 3, line 62 - column 4, line 42; figures 1,2	74,87, 113
Χ	EP 0 818 156 A (BMW) 14 January 1998 (1998-01-14)	87,113, 114
Y A	column 3, line 47 - column 4, line 47 figures 1,2	78,88-90 80-86
Х	US 4 475 248 A (L'ABBE ET AL.) 9 October 1984 (1984-10-09)	91-98
Υ	column 1, line 47 - column 4, line 2	92-98, 117-121
Α	figures 1,2,4	100-113
	-/	*,

C.(Continu	uation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 4 546 498 A (FANTIN) 15 October 1985 (1985-10-15) column 2, line 4 - line 63; figures 1-4	99
X	US 6 101 916 A (PANOT ET AL.) 15 August 2000 (2000-08-15) column 3, line 24 - column 5, line 29; figures 1-3	100-113
Х	DE 200 349 C (DRÄGERWERK) 9 July 1908 (1908-07-09) the whole document	113,114
X	DE 31 45 106 A (BRD) 26 May 1983 (1983-05-26) page 7, line 2 - line 11; figure 3	113,114
Χ . Υ	EP 0 412 205 A (TISSERONT ET AL.) 13 February 1991 (1991-02-13) abstract; figures 1-6	113,114 88-90
X	US 3 082 427 A (ZBIKOWSKI) 26 March 1963 (1963-03-26) column 3, line 4 - line 9; figures 1-6 column 1, line 60 - column 2, line 35	117-127 128-130
Y X	US 2 867 812 A (ROTH ET AL.) 13 January 1959 (1959-01-13) column 2, line 58 - line 67; figures 1,2,5	144
X	US 4 023 210 A (HANSON) 17 May 1977 (1977-05-17) claims 1,3; figures 1-9 abstract	145
X A	WO 95/10955 A (SISTEMA COMPOSITI) 27 April 1995 (1995-04-27) page 4, line 12 - page 7, line 1; figures	149,150 62-73
X A	1-6 FR 2 716 348 A (API SEPLAST) 25 August 1995 (1995-08-25) page 4, line 24 - page 5, line 34; claims 3-6; figures 1,2	149,150 62-73
X	US 4 326 303 A (RAPPLEYEA) 27 April 1982 (1982-04-27) column 2, line 34 - line 36; figure 1	151
Х	US 5 347 660 A (ZIDE ET AL.) 20 September 1994 (1994-09-20) the whole document	151
	-/	

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	la.u.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	EP 0 294 676 A (ARAI) 14 December 1988 (1988-12-14) column 4, line 55 - column 5, line 53;	33,34, 41-43 44-46,
••	figures 3-5	145-148
Υ	DE 85 14 219 U (AIR TECHNIK) 27 June 1985 (1985-06-27) page 6, line 12 - page 7, line 22; claims 1,2,6; figures 1-5	62-73
Υ	GB 1 018 928 A (FRIEDER) 2 February 1966 (1966-02-02) page 3, right-hand column, line 82 - line 91; figures 1,3 page 2, right-hand column, line 90 - page 3, left-hand column, line 32	62-73
Υ	US 4 498 202 A (YAMAMOTO)	80-86
A	12 February 1985 (1985-02-12) column 2, line 55 - column 4, line 54; figures 1-7	78
Υ	US 5 765 235 A (ARNOLD) 16 June 1998 (1998-06-16) column 3, line 52 - column 4, line 35; figure 2	80-86
Α	column 2, line 14 - line 36	79
Υ	WO 95/11473 A (KOPIN) 27 April 1995 (1995-04-27) page 48, line 18 - line 23; figure 51 page 35, line 32 - line 35	100-113
Υ	US 4 729 132 A (FIERRO)	117-125
<b>A</b> .	8 March 1988 (1988-03-08) column 3, line 56 - column 4, line 43; figures 4-7	74-79
Y	US 3 789 427 A (AILEO) 5 February 1974 (1974-02-05) column 9, line 35 - line 47; figures 3,4	117-125
Υ	US 2 184 043 A (HEILSTEDT ET AL.) 19 December 1939 (1939-12-19) page 1, right-hand column, line 3 - page 2, left-hand column, line 14; figures 1-5	128-130
Y	US 6 298 498 B1 (BURNS ET AL.) 9 October 2001 (2001-10-09) column 3, line 53 - column 4, line 25; figures 1,4-8	145-147
	-/	
	·	

C.(Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Aeievani to dain No.
Y	US 6 438 763 B1 (GUAY ET AL.) 27 August 2002 (2002-08-27) column 3, line 37 - column 4, line 32; figures 6,7a,7b	145-147
A	US 3 858 242 A (GOODING) 7 January 1975 (1975-01-07)	1-25, 41-43, 47-61
	the whole document	
Α .	US 4 817 596 A (GALLET) 4 April 1989 (1989-04-04) column 5, line 11 - line 25; figures 8,9	15
A	US 3 495 273 A (AILEO) 17 February 1970 (1970-02-17) column 4, line 70 - column 7, line 22 column 9, line 24 - column 11, line 29; figures 1-8,21-25	19-24
Α	US 6 012 178 A (SCHUSTER ET AL.) 11 January 2000 (2000-01-11) the whole document	25
<b>A</b> .	US 4 718 127 A (RITTMANN ET AL.) 12 January 1988 (1988-01-12) column 3, line 4 - column 6, line 61; figures 1-10	26-46
<b>A</b>	FR 2 785 505 A (SHARK) 12 May 2000 (2000-05-12) abstract; figures 1-13	26-31
A	EP 1 166 666 A (KASCO BETA) 2 January 2002 (2002-01-02) paragraph [0014] - paragraph [0023]; figures 1-5	26-46
A	US 2002/148032 A1 (BASSON ET AL.) 17 October 2002 (2002-10-17) paragraph [0038] - paragraph [0049]; figures 1-25	26-46, 145-148
A	US 4 445 253 A (HOWEY) 1 May 1984 (1984-05-01) column 2, line 25 - column 3, line 36; figures 1-6	62-73
<b>A</b> , .	DE 90 15 739 U (HARTUNG HELMETS) 28 February 1991 (1991-02-28) page 5, line 15 - page 6, line 29; figures 1-3	62-73
	-/	

	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Helevant to oldini NO.
Α	US 2001/030630 A1 (JUNK) 18 October 2001 (2001-10-18)	74-79, 87-90, 100-114
	paragraph [0029] - paragraph [0033]; figures 1-4 paragraph [0020] - paragraph [0027]	
Α	GB 2 370 972 A (SMITH ET AL.) 17 July 2002 (2002-07-17) the whole document	79
Α	US 4 047 249 A (B00TH) 13 September 1977 (1977-09-13) column 1, line 56 - line 62; figure 2	79
A	US 2 798 221 A (BAILEY ET AL.) 9 July 1957 (1957-07-09) column 3, line 8 - line 38; figure 7	99
Α	US 4 887 320 A (LONG ET AL.) 19 December 1989 (1989-12-19) column 4, line 59 - column 5, line 31; figure 7	99
Α	WO 95/28100 A (MALENOTTI) 26 October 1995 (1995-10-26) page 16, line 28 - page 17, line 23; figures 1-6b,13a,13b,13c page 7, line 8 - page 10, line 13	117-125, 148
Α	GB 539 577 A (BYSON APPLIANCE) 16 September 1941 (1941-09-16) page 3, left-hand column, line 25 - right-hand column, line 75; figures 1-5 page 1, right-hand column, line 78 - line 93	117-125
A	EP 0 291 308 A (HONDA) 17 November 1988 (1988-11-17) column 1, line 55 - column 2, line 12; figures 3,4	117-125
A,P	US 6 622 313 B1 (CHOI ET AL.) 23 September 2003 (2003-09-23) column 3, line 60 - column 6, line 43; figures 2-8	148
Α	FR 2 759 869 A (JCP INDUSTRIES) 28 August 1998 (1998-08-28) the whole document	148
A	US 6 387 477 B1 (OGURA ET AL.) 14 May 2002 (2002-05-14)	
	-/	

(Continue	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
, P	WO 03/096832 A (WHITE WATER RESEARCH AND SAFETY INSTITUTE) 27 November 2003 (2003-11-27)	
١	US 5 603 117 A (HUDNER ET AL.) 18 February 1997 (1997-02-18)	
1	DE 94 18 835 U (LIN) 19 January 1995 (1995-01-19)	
	EP 0 997 080 A (ARAI HELMET) 3 May 2000 (2000-05-03)	
		·
		·

· 7

l	PU	۱/	CAZ	JU4,	/ ปป	1044	İ
---	----	----	-----	------	------	------	---

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
DE 3244152		30-05-1984	DE	3244152 A1	30-05-1984
US 3573150	Α	30-03-1971	CA	923417 A1	27-03-1973
DE 8633539	 υ	09-04-1987	DE	8633539 U1	09-04-1987
FR 2607237	Α	27-05-1988	FR	2607237 A1	27-05-1988
US 3636565	Α	25-01-1972	CA DE GB	932102 A1 2061600 A1 1266818 A	21-08-1973 27-01-1972 15-03-1972
FR 2706257	Α	23-12-1994	FR	2706257 A1	23-12-1994
US 5747159	A	05-05-1998	US AT AU CA CN DE EP IE JP MX TR US WO ZA	5229204 A 172149 T 3735193 A 2131011 A1 1077416 A 69227302 D1 69227302 T2 0557636 A1 0627988 A1 922553 A1 102466 A 7507383 T 9301114 A1 27217 A 5372771 A 9316872 A1 9301388 A	20-07-1993 15-10-1998 13-09-1993 02-09-1993 20-10-1993 19-11-1998 17-06-1999 01-09-1993 14-12-1994 08-09-1993 20-11-1997 10-08-1995 31-01-1994 09-12-1994 13-12-1994 02-09-1993 22-09-1993
EP 1069370	Α	17-01-2001	ES AU EP WO	1039829 U1 9162998 A 1069370 A1 9953235 A1	16-01-1999 01-11-1999 17-01-2001 21-10-1999
DE 729240	С	11-12-1942	NONE		
US 5357409	Α	18-10-1994	US	5758947 A	02-06-1998
EP 0818156	Α	14-01-1998	DE EP JP	19628087 A1 0818156 A2 10053916 A	15-01-1998 14-01-1998 24-02-1998
US 4475248	Α	09-10-1984	NONE		
US 4546498	A	15-10-1985	IT AT DE EP ES JP	1212639 B 29650 T 3373615 D1 0088344 A2 270683 Y 58169505 A	30-11-1989 15-10-1987 22-10-1987 14-09-1983 01-03-1984 06-10-1983
US 6101916	A	15-08-2000	FR CA DE DE	2758635 A1 2227555 A1 69804690 D1 69804690 T2	24-07-1998 22-07-1998 16-05-2002 14-11-2002

PL	1/	CAZ	<b>UU4</b>	/ טט	<b>1044</b>
----	----	-----	------------	------	-------------

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6101916	A		EP ES IL	0855571 A1 2175627 T3 122959 A	29-07-1998 16-11-2002 19-03-2001
DE 200349	C		NONE		
DE 3145106	Α	26-05-1983	DE	3145106 A1	26-05-1983
EP 0412205	A	13-02-1991	EP AT CA DE DE ES US	0412205 A1 95675 T 2023088 A1 68909934 D1 68909934 T2 2025483 A6 5119505 A	13-02-1991 15-10-1993 12-02-1991 18-11-1993 07-04-1994 16-03-1992 02-06-1992
US 3082427	Α	26-03-1963	NONE		
US 2867812	Α	13-01-1959	NONE		
US 4023210	Α	17-05-1977	NONE		
WO 9510955	Α	27-04-1995	IT WO EP	1265117 B1 9510955 A2 0740512 A1	30-10-1996 27-04-1995 06-11-1996
FR 2716348	Α	25-08-1995	FR FR	2716348 A1 2716349 A1	25-08-1995 25-08-1995
US 4326303	Α	27-04-1982	CA	1141103 A1	15-02-1983
US 5347660	Α -	20-09-1994	NONE		
EP 0294676	A	14-12-1988	JP JP DE DE EP EP KR US	1774920 C 4033886 B 63309612 A 3864912 D1 3887171 D1 3887171 T2 0294676 A1 0420300 A2 9204855 B1 4907299 A	14-07-1993 04-06-1992 16-12-1988 24-10-1991 24-02-1994 28-04-1994 14-12-1988 03-04-1991 19-06-1992 13-03-1990
DE 8514219	U	27-06-1985	DE	8514219 U1	27-06-1985
GB 1018928	Α	02-02-1966	NONE		
US 4498202	Α	12-02-1985	NONE		
US 5765235	A	16-06-1998	NL AT AU CA DE DE DK EP	9402012 A 178765 T 3937895 A 2206493 A1 69509130 D1 69509130 T2 802743 T3 0802743 A1	01-07-1996 15-04-1999 19-06-1996 06-06-1996 20-05-1999 09-12-1999 25-10-1999 29-10-1997

1	1/	CAZ	UU4	/ ७७	<b>1</b> 044
---	----	-----	-----	------	--------------

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5765235 A		ES 2129867 T3 FI 972281 A GR 3030628 T3 JP 10510596 T WO 9616563 A1 NO 972332 A	16-06-1999 29-05-1997 29-10-1999 13-10-1998 06-06-1996 29-07-1997
w0 9511473 A	27-04-1995	CA 2174510 A1 EP 0724743 A1 EP 0821257 A2 JP 9504120 T US 6421031 B1 WO 9511473 A1 US 2002005819 A1 US 6452572 B1 US 2002190923 A1 US 6424321 B1 US 5815126 A US 2002163486 A1 US 2001054989 A1	27-04-1995 07-08-1996 28-01-1998 22-04-1997 16-07-2002 27-04-1995 17-01-2002 17-09-2002 19-12-2002 23-07-2002 29-09-1998 07-11-2002 27-12-2001
US 4729132 A	08-03-1988	NONE	
US 3789427 A	05-02-1974	NONE	
US 2184043 A	19-12-1939	NONE	
US 6298498 B1	09-10-2001	US 6035451 A AU 8665298 A BR 9815720 A CA 2321998 A1 DE 69818711 D1 DE 69818711 T2 EP 1061824 A1 ES 2203978 T3 JP 2002506142 T WO 9945810 A1	14-03-2000 27-09-1999 07-11-2000 16-09-1999 06-11-2003 29-04-2004 27-12-2000 16-04-2004 26-02-2002 16-09-1999
US 6438763 B:	27-12-2001	FR 2809286 A1 CA 2349764 A1 US 2001054188 A1	30-11-2001 29-11-2001 27-12-2001
US 3858242 A	07-01-1975	NONE	
US 4817596 A	04-04-1989	FR 2532552 A1 AT 18507 T CA 1211676 A1 DE 3362544 D1 EP 0105813 A1 ES 282964 U	09-03-1984 15-03-1986 23-09-1986 17-04-1986 18-04-1984 16-04-1986
US 3495273 A	17-02-1970	DE 1660730 A1 FR 1604977 A GB 1167451 A US 3748657 A	02-09-1971 26-06-1972 15-10-1969 31-07-1973
US 6012178 A	11-01-2000	DE 19613583 A1 AT 198794 T	31-10-1996 15-02-2001

Patent document cited in search report	Pu	ublication date		Patent family member(s)		Publication date
US 6012178	A		AU CA CN DE DK WO EP ES IL JP		A1 A ,B D1 T3 A1 A1 T3 A	30-10-1996 17-10-1996 06-05-1998 22-02-2001 29-01-2001 17-10-1996 28-01-1998 01-03-2001 05-04-1998 26-03-1999 30-09-1997
US 4718127	A 1	2-01-1988	NONE			
FR 2785505	A 1	2-05-2000	FR	2785505	A1	12-05-2000
EP 1166666	A 0	2-01-2002	IT EP	MI20001460 1166666		31-12-2001 02-01-2002
US 2002148032	A1 1	7-10-2002	FR CA EP WO JP	2808976 2382804 1283684 0189332 2003533614	A1 A1	23-11-2001 29-11-2001 19-02-2003 29-11-2001 11-11-2003
US 4445253	A 0	1-05-1984	NONE			
DE 9015739	U 2	8-02-1991	DE	9015739	U1	28-02-1991
US 2001030630	A1 1	8-10-2001	DE EP	10018490 1146414		29-11-2001 17-10-2001
GB 2370972	A 1	7-07-2002	NONE			
US 4047249	A 1	3-09-1977	NONE			
US 2798221	A 0	9-07-1957	NONE			
US 4887320	A 1	9-12-1989	DE IL IT NL	8803248 3821466 86642 1217931 8801515	A1 A B A	31-01-1989 12-01-1989 16-09-1991 30-03-1990 01-02-1989
WO 9528100	A 2	26-10-1995		9528100	A1	26-10-1995 10-11-1995
GB 539577	A 1	6-09-1941				
EP 0291308	A 1		JP DE EP US	63183230 3873408 0291308 4970729	T2 A1	25-11-1988 03-12-1992 17-11-1988 20-11-1990
US 6622313	B1 (	02-10-2003	KR EP US	2003079139 1350437 2003182717	A2	10-10-2003 08-10-2003 02-10-2003

## PC1/CA2004/000444

	Patent document cited in search report		Publication date		Patent family member(s)		Publication date
	FR 2759869	Α	28-08-1998	FR	2759869 /	A1	28-08-1998
	US 6387477	B1	14-05-2002	JP JP	3535410 I 11314325 <i>I</i>		07-06-2004 16-11-1999
	WO 03096832	A	27-11-2003	WO US	03096832 / 2003221245 /		27-11-2003 04-12-2003
	US 5603117	Α	18-02-1997	NONE			
	DE 9418835	U	19-01-1995	DE	9418835	U1	19-01-1995
·	EP 0997080	Α	03-05-2000	JP JP EP KR TW US	539540	A A2 A	31-01-2000 16-05-2000 03-05-2000 25-05-2000 01-07-2003 30-10-2001